Pro Display XDR

Overview Tech Specs Buy

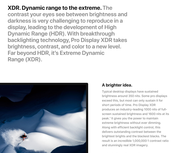
Believing is seeing.

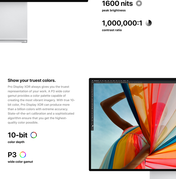
The first 32-inch Retina 6K display ever. Up to 1600 nits of brightness. An astonishing 1,000,000:1 contrast ratio and supersize viewing angle. Over a billion colors presented with exceptional accuracy. And dynamic range that transforms the professional workflow. Introducing Apple Pro Display XDR, the world's best pro display.

Watch the film

See Pro Display XDR in AR

View the Pro Display XDR Technology White Paper (PDF)





XDR. Dynamic range to the extreme. The contrast your eyes see between brightness and darkness is very challenging to reproduce in a display, leading to the development of High Dynamic Range (HDR). With breakthrough backlighting technology, Pro Display XDR takes brightness, contrast, and color to a new level. Far beyond HDR. It's Extreme Dynamic Range (XDR).

A brighter idea.

Typical desktop displays have sustained brightness of around 500 nits. Pro Display XDR delivers 1600 nits, but it can also sustain this short periods of time. Pro Display XDR automatically adjusts to the right level for each screen sustained brightness and 1600 nits at a fraction, over 1000 nits.

1000 nits
full screen sustained brightness

1600 nits
peak brightness

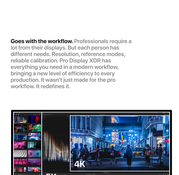
1,000,000:1
contrast ratio

Show your truest colors. Pro Display XDR shows you the truest representation of your work. A 10-bit color panel provides a color palette capable of displaying more than a billion colors. And its 10-bit color Pro Display XDR can produce more than a billion colors with extreme accuracy. A 14-bit processing system and 128-bit color algorithm ensure that you get the highest color fidelity.

10-bit
color depth

P3
wide color gamut

LED in a whole new light. True-to-life imagery requires having extremely bright areas of the screen right next to extremely dark areas. Without precise backlight control, this can cause an unintended glow called blooming. Pro Display XDR is able to dramatically reduce blooming using advanced LED technology, display shape, and intelligent image processing.



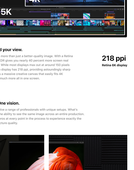
Innovation in every layer.

From a back-lit system in Pro Display XDR is crucial to the overall quality of what you see onscreen. Each element builds on top of the last to create a display with unbelievable brightness and contrast.

Supersize viewing angle.

When multiple people review work together on a display, everyone should see the same image in the same thing. While most pro displays displays claim a wide viewing angle, in reality, image quality degrades when viewed from the side. With industry-leading panel technology, Pro Display XDR achieves a supersize viewing angle that delivers exceptional color and contrast.

178°
25x
darker off-axis contrast
than a typical LCD

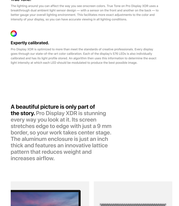


Less glare. And even less glare.

Pro Display XDR comes standard with a nanotexture that dramatically reduces glare. And if you're in an especially uncontrolled lighting environment, you can add a fine-texture etch option with even lower glare. Typical matte displays have a coating added to their surface that scatters light, but this can also soften the lower contrast while producing unwanted haze and sparkle. The nano-texture on Pro Display XDR is etched directly into the glass at the nanometer level. The result is a screen with beautiful image quality that delivers the lowest glare you can get for its reduce glare to the lowest minimum.

Nano-texture glass. Light scattered to further reduce glare.

Goes with the workflow. Professionals require a lot from their displays. But each person has different needs. Resolutions, reference modes, reliable calibration. Pro Display XDR has everything you need in a modern workflow, bringing a new level of efficiency to every production. It wasn't just made for the pro workflow. It redefines it.



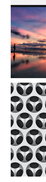
Retina 6K. Expand your view.

Digital cinematographers have their own cinema-quality image. With a Retina 6K display, Pro Display XDR gives you nearly 40 percent more screen real estate than a 4K display. Which means you can view your full 6K image, or see full-size 4K, on Retina display has 218 ppi, providing astounding picture and detailed imagery. It's a massive creative canvas that easily fits 4K content, your tools, and much more all on one screen.

218 ppi
Retina 6K display

Many creatives. One vision.

Pro video workflows involve a wide range of professionals with unique setups. What's always been missing is the ability to see the same image across all remote productions. Pro Display XDR is the first display in the world that delivers a reference mode for the same groundbreaking picture quality.



On location. From the start of a shoot, cinematographers rely on Pro Display XDR for capturing with incredible accuracy.

Post-production. Image reproduction remains consistent from dailies to editorial to finishing, ensuring that everyone is always on the same page.

Reference modes.

It's easy to adjust Pro Display XDR to match the requirements of HDR, SD, SD video, digital cinema, and broader uses such as photography, web development, design, and print. Just select a mode, and the display automatically adjusts white point, gamma, brightness, gamma, and brightness. And nothing more, you'll have the ability to create custom reference modes.

True Tone.

The lighting around you can affect the way you see onscreen colors. True Tone on Pro Display XDR uses a color sensor to measure the ambient light and adjusts the white point of the display to match it. The result is the same gauge and lighting environment. This facilitates more exact adjustments to the color and intensity of your drawings, so you can have accurate viewing in all lighting conditions.

Expertly calibrated.

Pro Display XDR is optimized to more than meet the standards of creative professionals. Every display undergoes a rigorous factory calibration process to ensure that it delivers the highest color accuracy. Each calibration and test for high-profile screen. An algorithm then uses this information to determine the exact light intensity at which each LED should be modulated to produce the best possible image.

A beautiful picture is only part of the story. Pro Display XDR is stunning every way you look at it. Its screen stretches edge to edge with just a 9 mm border, so your work takes center stage. The aluminum enclosure is just an inch thick and features an innovative lattice pattern that reduces weight and increases airflow.

More air than metal.

The lattice pattern removes the its aluminum has many advantages. It more than doubles the surface area exposed to air, facilitating additional airflow and acting as a heat sink. Which means Pro Display XDR can run cooler and quieter. It's engineered an extreme level of brightness indefinitely. Inlet and exhaust vents vent through the pattern to draw in cool air and eject hot air away from the system, limiting the potential for hot air to be trapped.